Attorney Docket No. LAV0313163

REMARKS

By the present amendment, claims 7-10 corresponding to claims 3-4 but dependent on

claims 2, 3, and 7, respectively, have been added.

In addition, new method claims 11-20 corresponding to system claims 1-10 has been

added. Thus, claims 1 and 11 recite a common special technical feature that defines a contribution

to the art. Since the present application is a national stage of a PCT application, it is submitted that

system and method claims should be examined together in accordance with PCT "unity of

invention" rules.

Claims 1-20 are pending in the present application. Claims 1 and 11 are the only

independent claims.

T. Double patenting rejection

In the Office Action, claims 1-6 are provisionally rejected under 35 U.S.C. 101 for

double-patenting over claims 1 and 3-7 of U.S. Appl. No. 10/595,630 (claiming priority of French

Appl. No. 0313155), now U.S. Patent No. 7340885 issued March 11, 2008.

The rejection is respectfully traversed. Allowed claim 1 of the 10/595,630 application

(claim 1 of US7340885) is as follows:

1. A system for providing assistance in the regeneration of

depollution means associated with oxidation catalyst-forming

means, the means being integrated in an exhaust line of a motor

vehicle diesel engine and in which the engine is associated with

common manifold means for feeding the cylinders of the engine

Attorney Docket No. LAV0313163

with fuel, and being adapted at constant torque to implement a

strategy of regeneration by injecting fuel into the cylinders in at

least one post-injection, the system comprising:

· means for detecting a regeneration request and thus a

request for post-injection;

· means for detecting a period in which the engine is

idling;

· means for acquiring the temperature downstream from the

catalyst-forming means;

· means for determining a maximum quantity of fuel to be

injected through post-injections during this period

implementation of the strategy of regeneration, on the basis of said

temperature; and

· reduction means for progressively reducing the or each

post-injection as soon as the total quantity of fuel that has been

injected through post-injections since the start of the

post-injections during this period reaches the predetermined

maximum quantity.

(Emphasis added.) Thus, at least the detector means ("detector means for detecting a state of the

foot being raised on the vehicle accelerator") and the interrupting means ("means for immediately

interrupting the or each post-injection operation...") as recited in present claim 1 are not taught or

Amendment

U.S. Appl. No.: 10/595,633

Attorney Docket No. LAV0313163

suggested by, let alone substantially identical to, the detecting means and reduction means in the

claims of the '630 application (now US 7340885).

Further, a Terminal Disclaimer is submitted with this paper.

In view of the above, it is submitted that the rejection should be withdrawn.

II. Art rejections

Next, in the Office Action, claims 1-3 are rejected under 35 U.S.C. 102(b) as anticipated

by US 6,655,133 to Mikami et al. ("Mikami").

Further, claim 4 is rejected under 35 U.S.C. 103(a) as obvious over Mikami in view of US

6,488,725 to Vincent et al. ("Vincent"), claim 5 is rejected under 35 U.S.C. 103(a) as obvious over

Mikami in view of US 6,023,928 to Peter-Hoblyn et al. ("Peter-Hoblyn"), and claim 6 is rejected

under 35 U.S.C. 103(a) as obvious over Mikami in view of US 3,157,987 to Pouit ("Pouit").

The rejection is respectfully traversed. It is submitted that Mikami, and especially the

passage to which reference is made in the Office Action (Fig. 31 and corresponding text at col. 24,

steps 503-505) do not teach or suggest a system and method as in the present claims.

In particular, contrary to the assertion in the Office Action, step 505 of Mikami does NOT

correspond to a step of "immediately interrupting the or each post-injection operation as soon as

the quantity of fuel injected has reached the predetermined maximum quantity" as in the presently

claimed invention. Specifically, in Mikami, step 505 in which "the temperature increase control is

stopped" is dependent on step 504 in which "it is determined whether the deceleration of the

engine is terminated or not" (see Mikami at col. 24, lines 43-51). Thus, in Mikami, post-injections

stop when deceleration is terminated, not after a predetermined quantity of post-injection fuel has

Amendment

U.S. Appl. No.: 10/595,633

Attorney Docket No. LAV0313163

been expended.

In other words, Mikami sets no limit as to the post-injected amount of gas, and especially

not by determining a maximum quantity of fuel to be injected in the post-injection operations

during the period of returning to idling following the foot being raised on the accelerator, and on

the basis of said temperature, and immediately interrupting the or each post-injection operation as

soon as the quantity of fuel injected has reached the predetermined maximum quantity, as

provided in the present claims. Further, Mikami does not provide any motivation or incentive to

arrive at the presently claimed invention, and the other cited references fail to remedy this

deficiency. Therefore, the present claims are not anticipated by Mikami, and not obvious over

Mikami taken alone or in any combination with the other cited references.

In addition, with respect to the dependent claims, it is submitted that the cited references

completely fail to teach or suggest the combined features of each of these respective

claims. Therefore, each of the dependent claims is not anticipated by Mikami, and not obvious

over Mikami taken alone or in any combination with the other cited references.

In view of the above, it is submitted that the rejections should be withdrawn.

Conclusion

In conclusion, the invention as presently claimed is patentable. It is believed that the claims

are in allowable condition and a notice to that effect is earnestly requested.

In the event there is, in the Examiner's opinion, any outstanding issue and such issue may

be resolved by means of a telephone interview, the Examiner is respectfully requested to contact

the undersigned attorney at the telephone number listed below.

Amendment

U.S. Appl. No.: 10/595,633

Attorney Docket No. LAV0313163

In the event this paper is not considered to be timely filed, the Applicants hereby petition for an appropriate extension of the response period. Please charge the fee for such extension and any other fees which may be required to our Deposit Account No. <u>502759</u>.

Respectfully submitted,

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